HWg-STE plus

HWg-STE plus PoE

MANUAL

HWg-STE plus – connectors

SENSORS

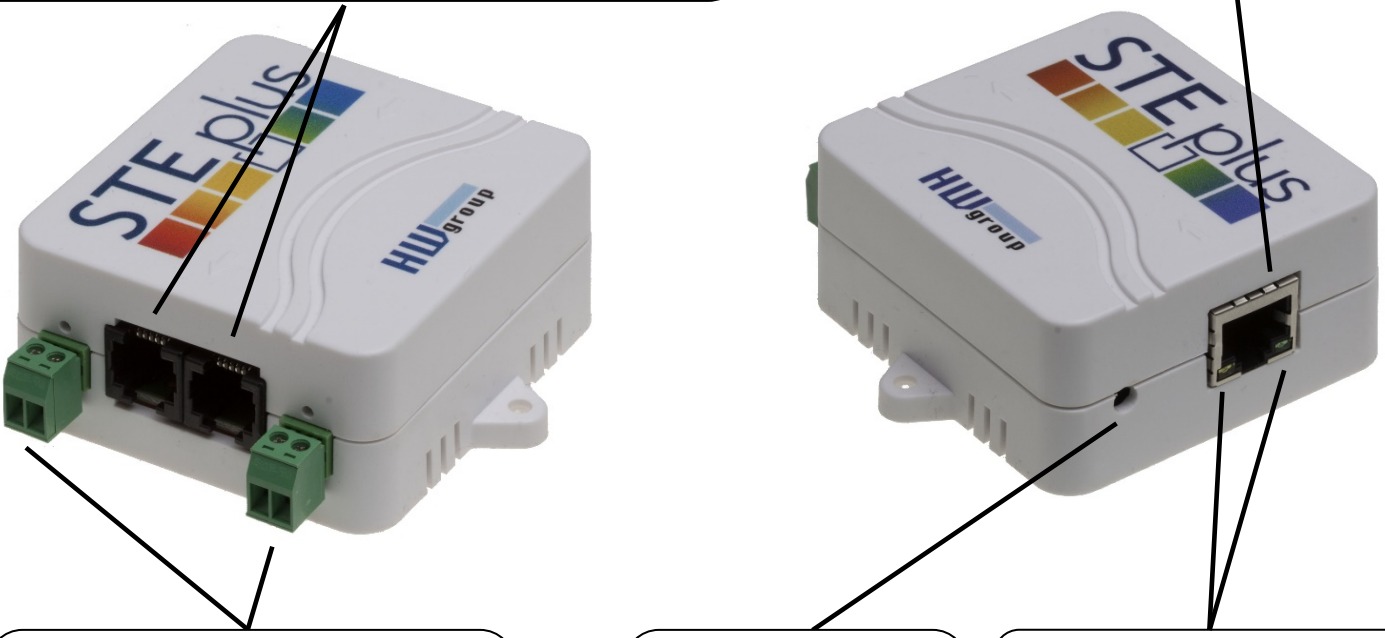
S1 and S2 ports for connecting temperature or humidity sensors.

Max distance **60m for both sensors in total**

ETHERNET

100 Mbps

**) PoE power only for "HWg-STE PoE"*



Digital Inputs

2x Digital input with LED signalization for connecting dry contact, door contacts or relay outputs.

POWER input

5V DC power supply
Use the supplied power adapter

LED indicators

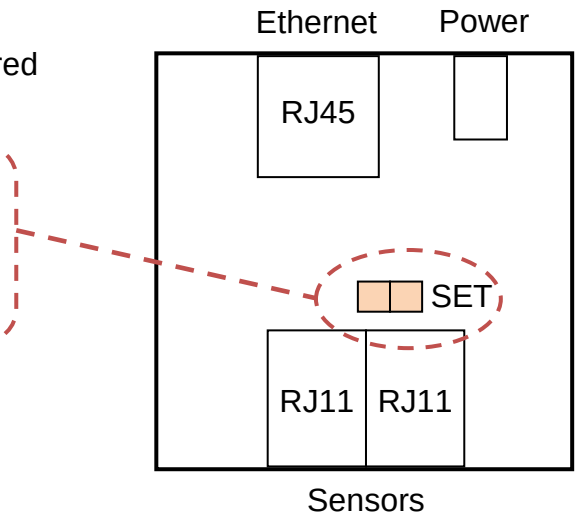
Green:	Power & Mode
Yellow:	Link & Activity

Setting the device to its factory default

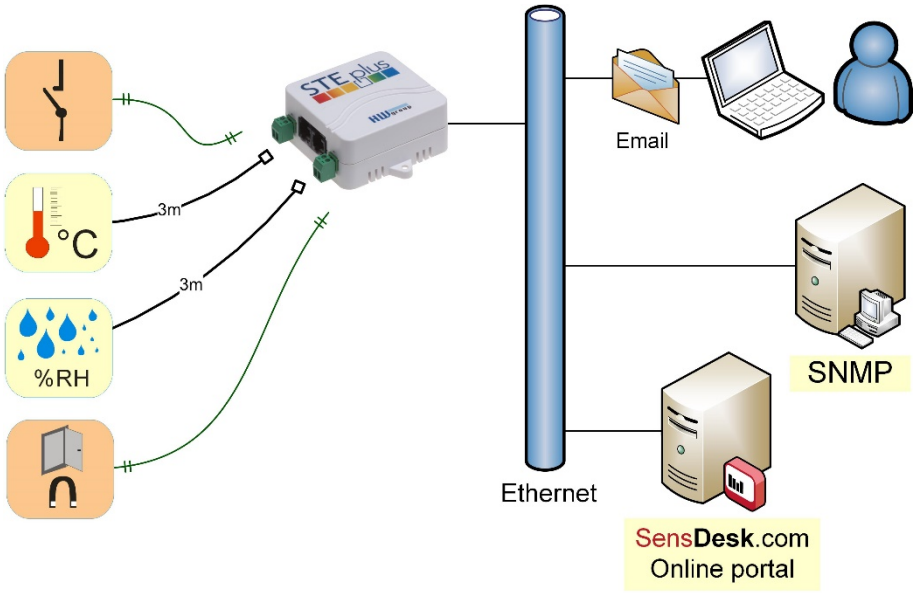
1) Turn the device off – unplug the power adapter.
2) Open the unit and set the marked jumper.
3) Turn on the device for 30 seconds only (to set the device back to defaults).
4) Turn off the device
5) Remove the jumper set in step 2
6) Turn on the device. Factory defaults settings is restored

JUMPER for restoring factory default settings

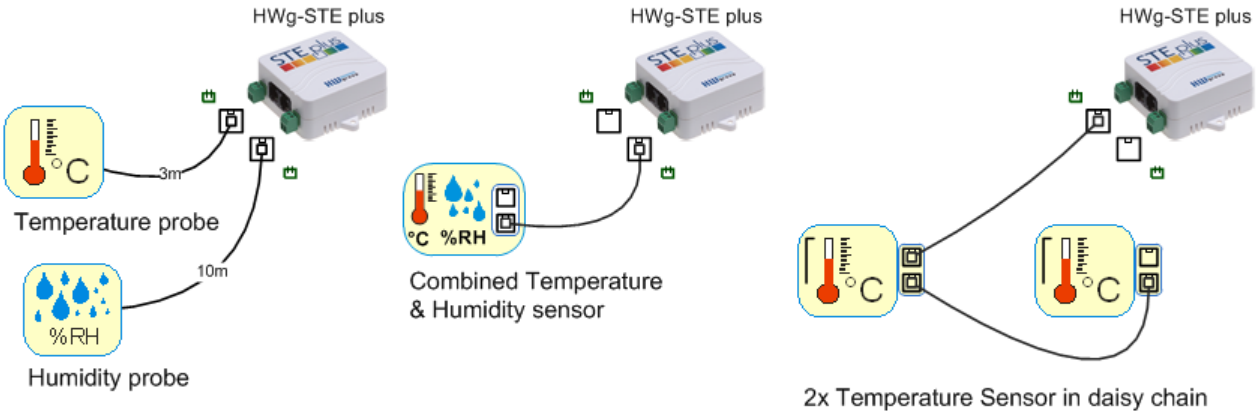
DO NOT KEEP THE JUMPER PERMANENTLY SET!



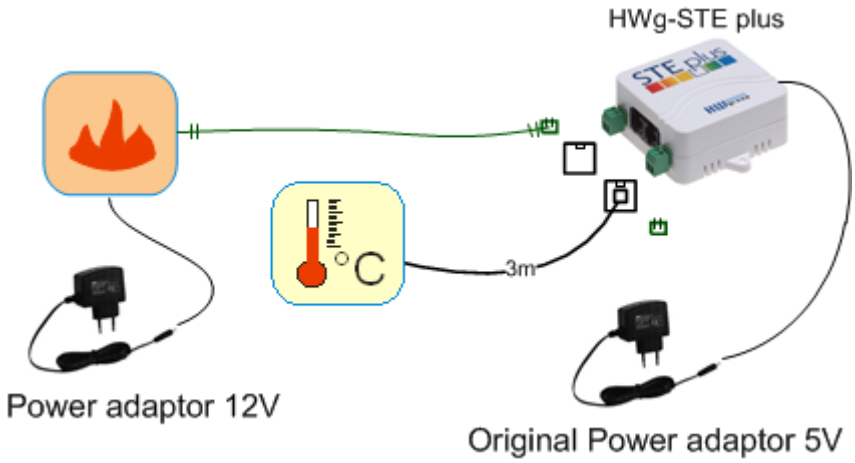
Recommended connection options



Sensors connection options:



Smoke sensor connection:



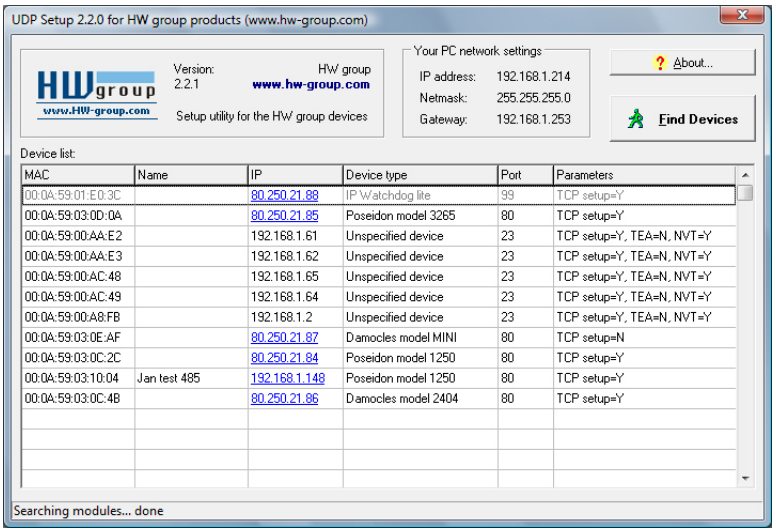
First steps

1) Connecting the cables

- Connect the unit to the Ethernet (patch cable to a switch, or a cross-over cable to a PC).
- Plug the power adapter in to a power outlet and connect it to the HWg-STE plus power connector.
- The green **Power & Mode** LED in the RJ45 connector lights up.
- If the Ethernet connection works properly, the **LINK** (yellow) LED lights up after a short while, and then flashes whenever data transfer takes place (activity indication).
- After power up, the **LINK** LED flashes rapidly to indicate IP address negotiation over DHCP.

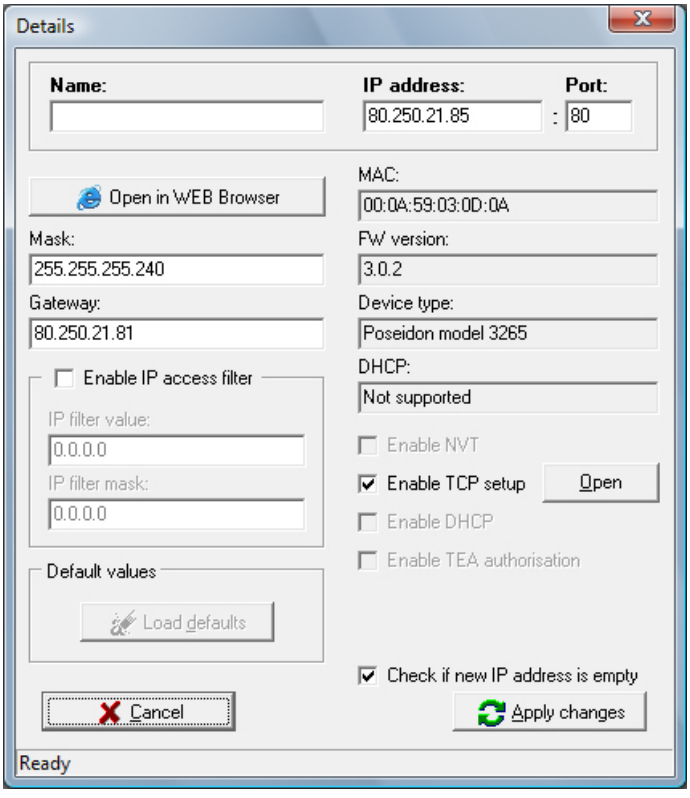
2) Configuring the IP address – UDP Config

UDP Config utility – root directory of the supplied CD (Windows and Linux versions). Available for download at www.HW-group.com Software > UDP Config.


UDP Setup 2.2.0 for HW group products (www.hw-group.com)
Version: 2.2.1
HW group
www.hw-group.com
Setup utility for the HW group devices
Your PC network settings
IP address: 192.168.1.214
Netmask: 255.255.255.0
Gateway: 192.168.1.253
About...
Find Devices
Device list:
MAC Name IP Device type Port Parameters
00:0A:59:01:E0:3C 80.250.21.88 IP Watchdog lite 99 TCP setup=Y
00:0A:59:03:0D:0A 80.250.21.85 Poseidon model 3265 80 TCP setup=Y
00:0A:59:00:AA:E2 192.168.1.61 Unspecified device 23 TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AA:E3 192.168.1.62 Unspecified device 23 TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AC:48 192.168.1.65 Unspecified device 23 TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AC:49 192.168.1.64 Unspecified device 23 TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:A8:FB 192.168.1.2 Unspecified device 23 TCP setup=Y, TEA=N, NVT=Y
00:0A:59:03:0E:AF 80.250.21.87 Damocles model MINI 80 TCP setup=N
00:0A:59:03:0C:2C 80.250.21.84 Poseidon model 1250 80 TCP setup=Y
00:0A:59:03:10:04 Jan test 485 192.168.1.148 Poseidon model 1250 80 TCP setup=Y
00:0A:59:03:0C:4B 80.250.21.86 Damocles model 2404 80 TCP setup=Y
Searching modules... done

- Click the icon to launch **UDP Config**. The program automatically looks for connected devices.
- To search for devices, click the **Find Devices** icon.

The program looks for devices on your local network. Double-click a MAC address to open a basic device configuration dialog.



Configure network parameters

- IP address / HTTP port (80 by default)
- Network mask
- Gateway IP address for your network
- Device name (optional)

Click the **Apply Changes** button to save the settings.

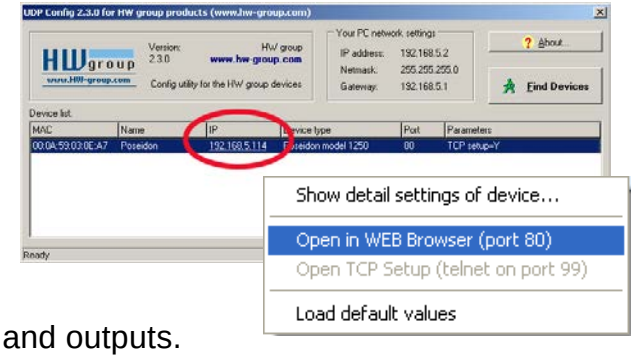
Restoring factory defaults

- Right-click on the device MAC address and select “Load default values”. Within 60 seconds after powering up the unit, factory defaults can be restored using UDP Config.

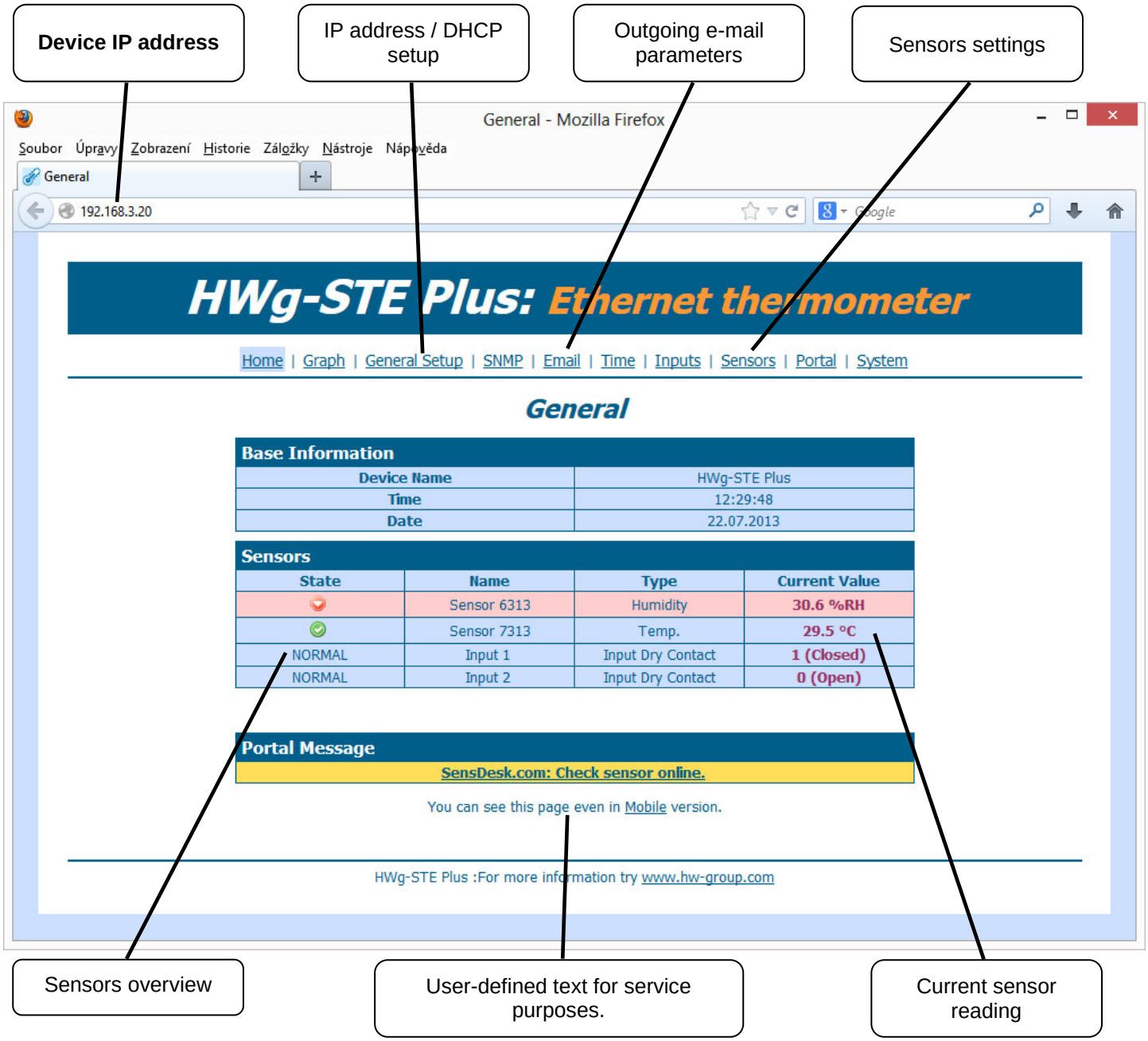
- Disconnect the power jack, connect the jumper near the RJ11 sockets, power up the device and wait 15 seconds. Then, disconnect the power and disconnect the jumper. The device is ready in its factory default configuration.

First steps

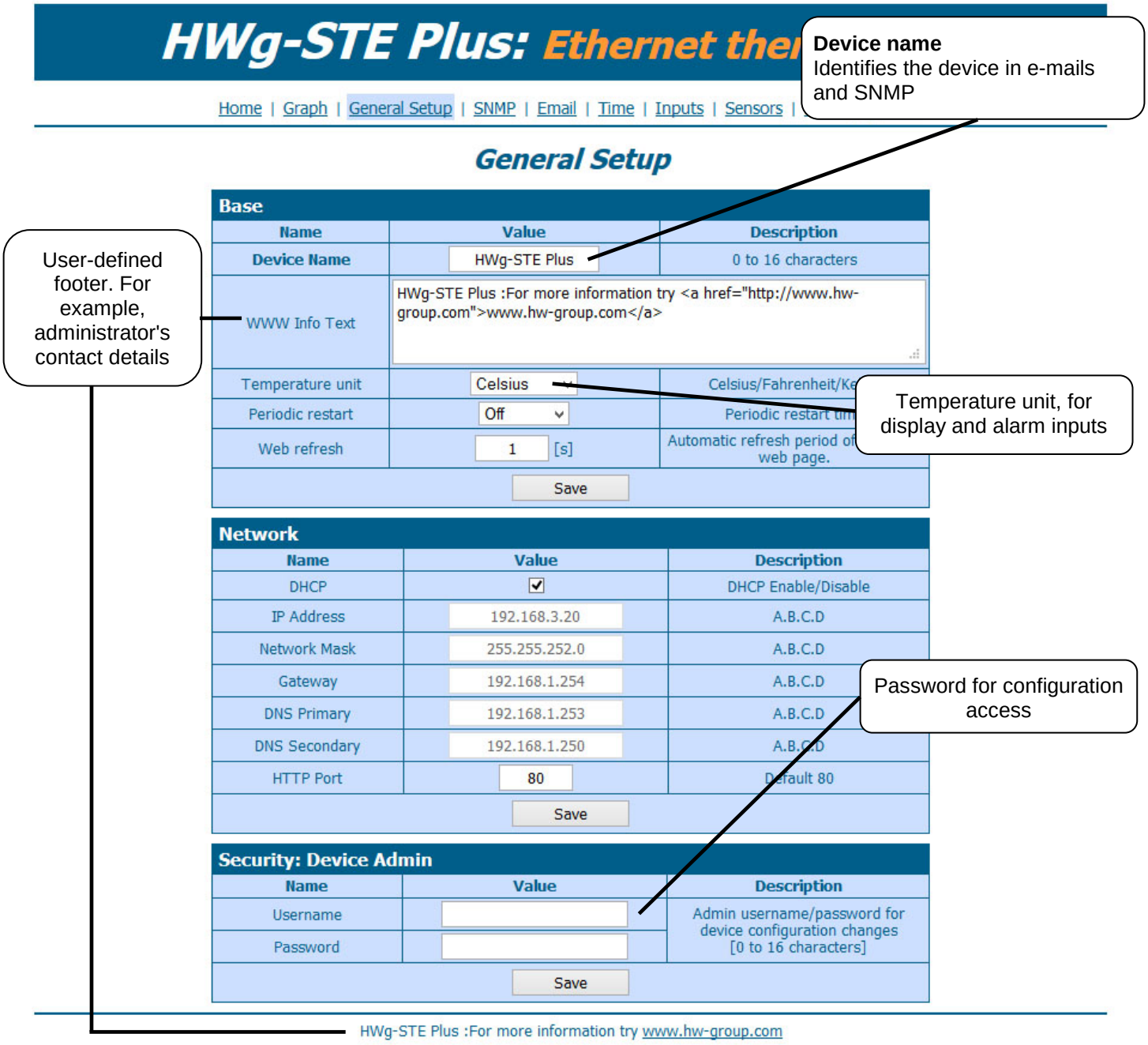
3) WWW interface of the device



- **To open the WWW interface of the device**:
  - Enter the IP address into a web browser
  - Click the IP address in UDP Config
  - Click the underlined IP address in UDP SETUP
- The WWW page displays current states of inputs and outputs.

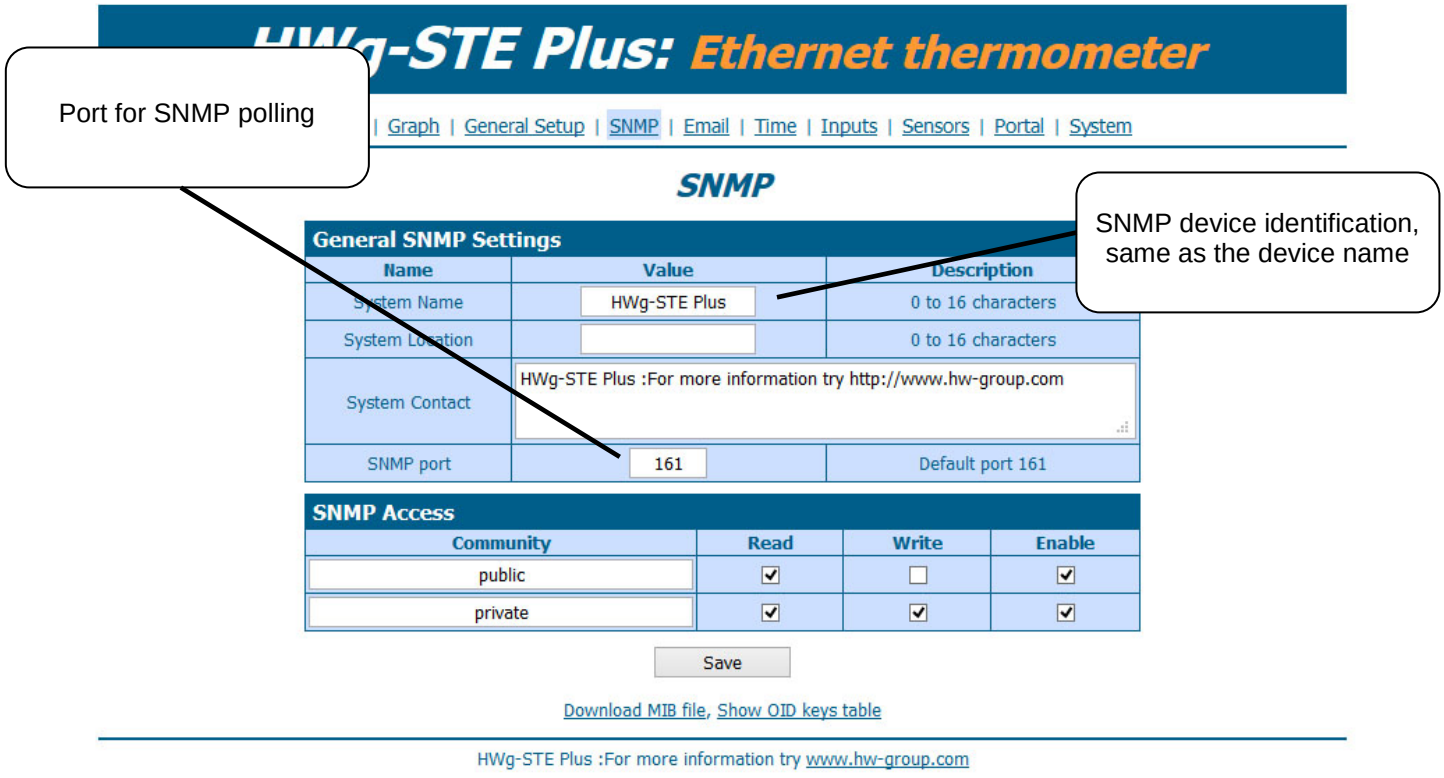

Device IP address
IP address / DHCP setup
Outgoing e-mail parameters
Sensors settings
General - Mozilla Firefox
192.168.3.20
HWg-STE Plus: Ethernet thermometer
Home | Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Portal | System
General
Base Information
Device Name HWg-STE Plus
Time 12:29:48
Date 22.07.2013
Sensors
State Name Type Current Value
Sensor 6313 Humidity 30.6 %RH
Sensor 7313 Temp. 29.5 °C
NORMAL Input 1 Input Dry Contact 1 (Closed)
NORMAL Input 2 Input Dry Contact 0 (Open)
Portal Message
SensDesk.com: Check sensor online.
You can see this page even in Mobile version.
HWg-STE Plus :For more information try www.hw-group.com
Sensors overview
User-defined text for service purposes.
Current sensor reading

Device configuration

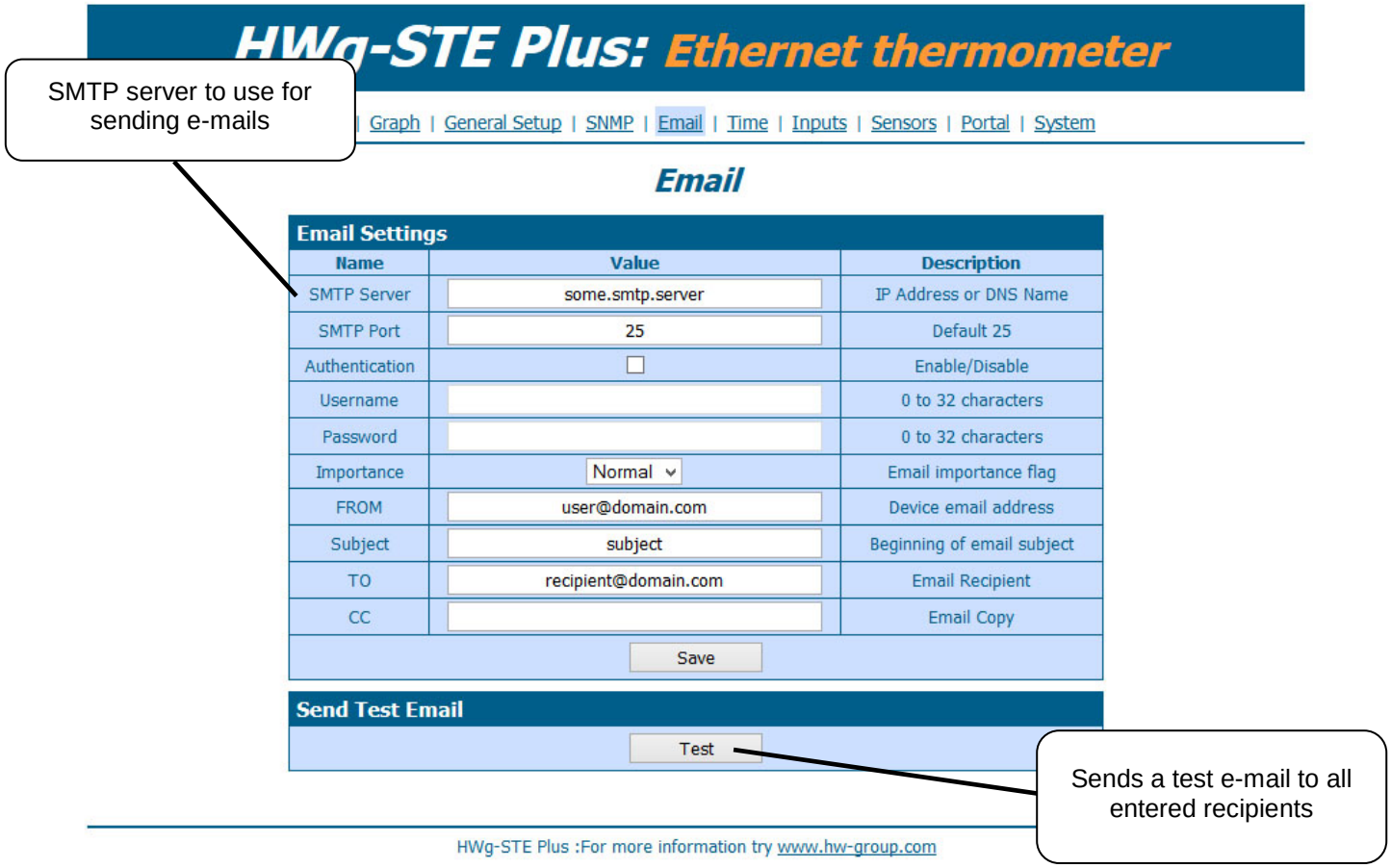


The configuration password is required for every page except the main page.
Without entering the password, it is then possible to read the current connected sensors values.

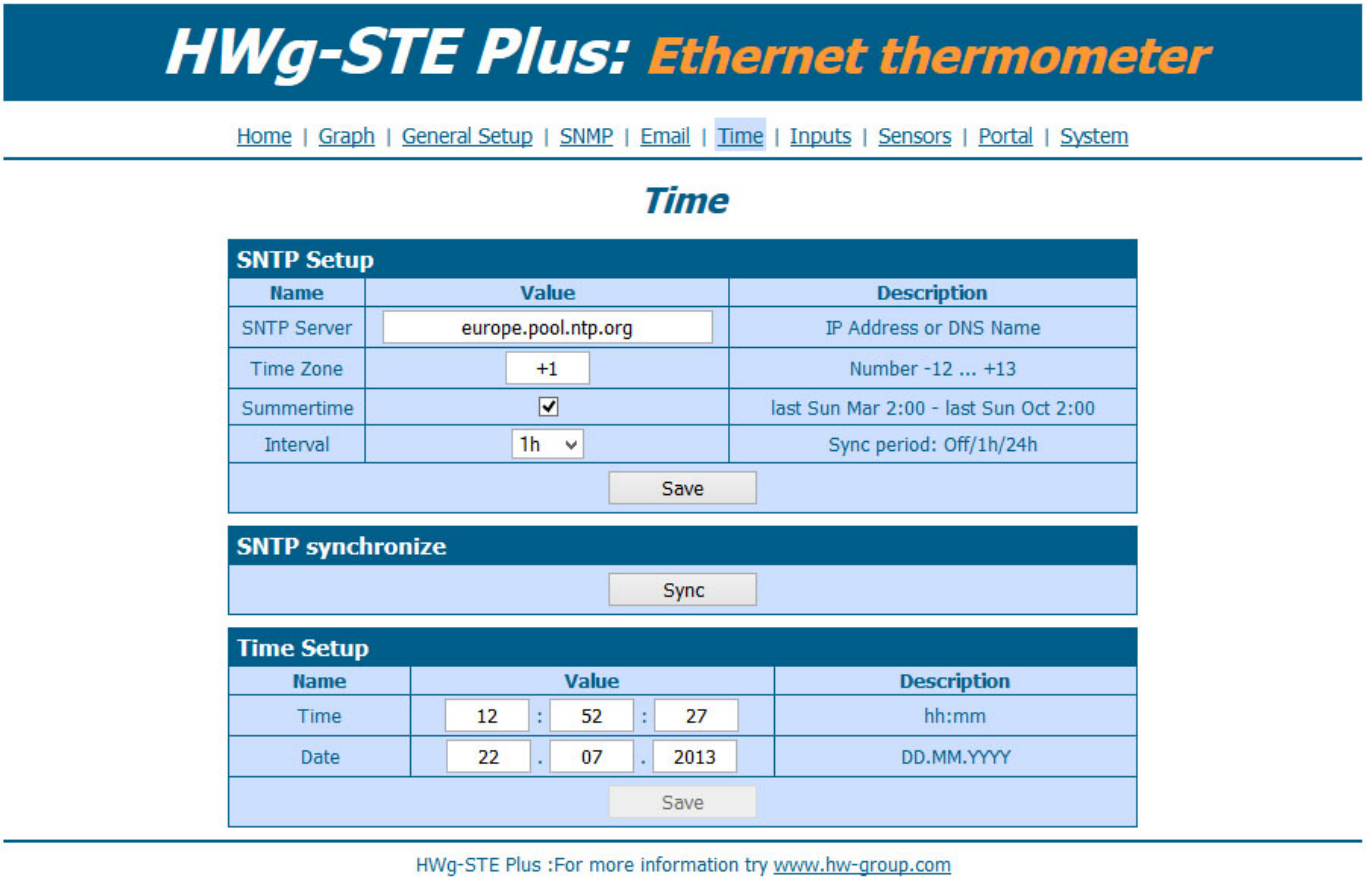
SNMP


Port for SNMP polling
SNMP device identification, same as the device name
HWg-STE Plus: Ethernet thermometer
Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Portal | System
SNMP
General SNMP Settings
Name
Value
Description
System Name
HWg-STE Plus
0 to 16 characters
System Location
0 to 16 characters
System Contact
HWg-STE Plus :For more information try http://www.hw-group.com
SNMP port
161
Default port 161
SNMP Access
Community
Read
Write
Enable
public
private
Save
Download MIB file, Show OID keys table
HWg-STE Plus :For more information try www.hw-group.com

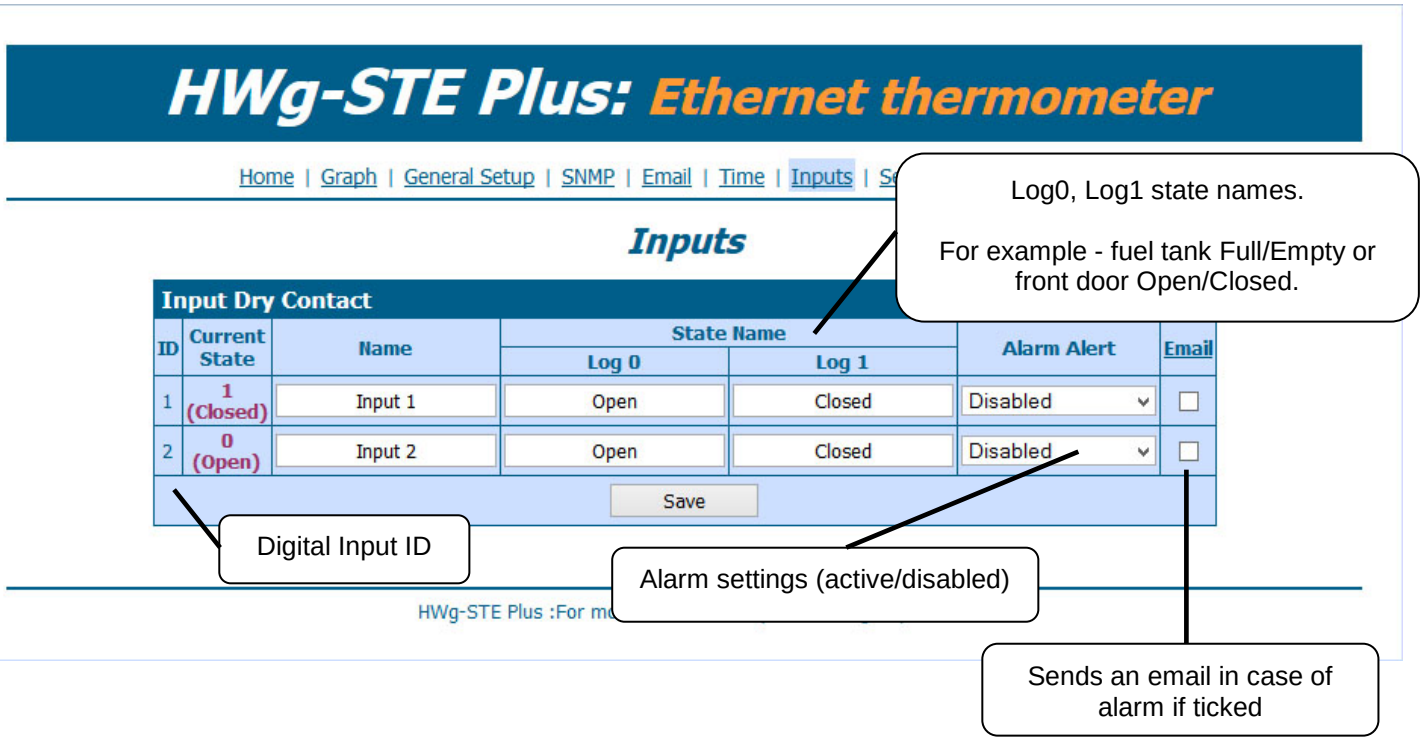
Email


SMTP server to use for sending e-mails
Sends a test e-mail to all entered recipients
HWg-STE Plus: Ethernet thermometer
Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Portal | System
Email
Email Settings
Name
Value
Description
SMTP Server
some.smtp.server
IP Address or DNS Name
SMTP Port
25
Default 25
Authentication
Enable/Disable
Username
0 to 32 characters
Password
0 to 32 characters
Importance
Normal
Email importance flag
FROM
user@domain.com
Device email address
Subject
subject
Beginning of email subject
TO
recipient@domain.com
Email Recipient
CC
Email Copy
Save
Send Test Email
Test
HWg-STE Plus :For more information try www.hw-group.com

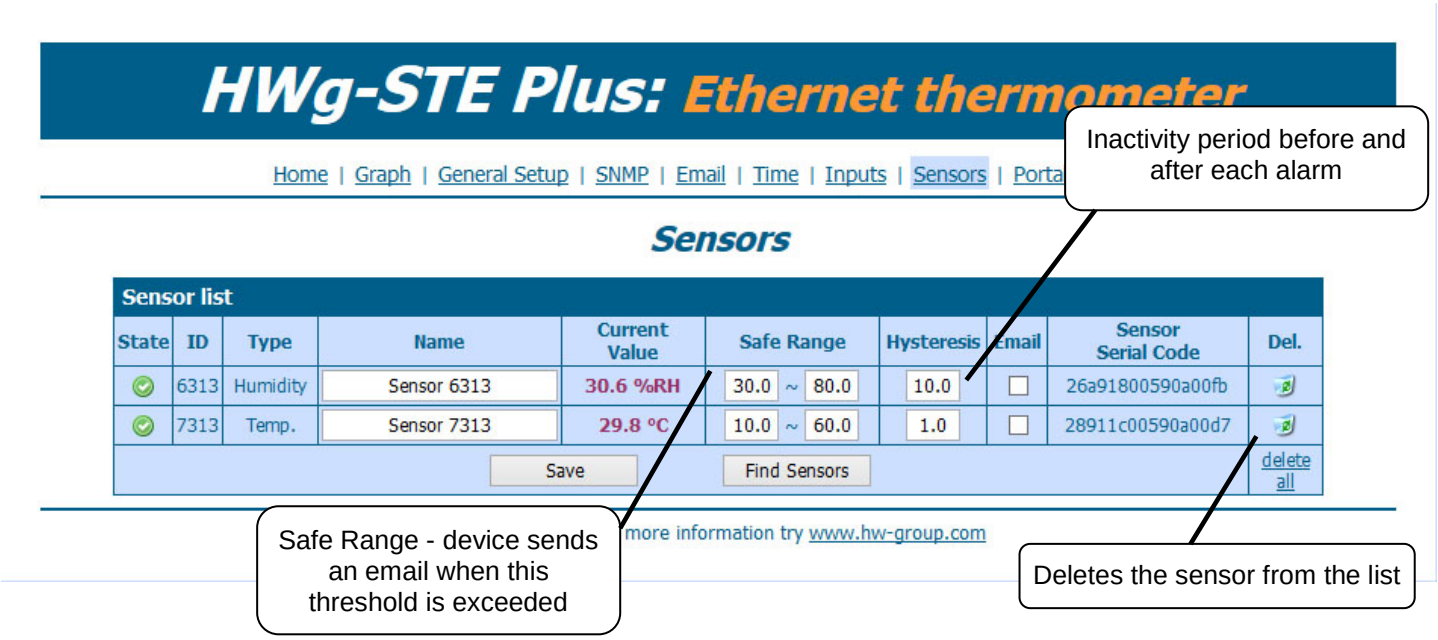
Time

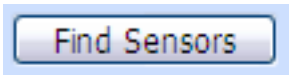


Digital Inputs



Sensors


HWg-STE Plus: Ethernet thermometer
Home | Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Porta
Sensors
Sensor list
State ID Type Name Current Value Safe Range Hysteresis Email Sensor Serial Code Del.
6313 Humidity Sensor 6313 30.6 %RH 30.0 ~ 80.0 10.0 26a91800590a00fb
7313 Temp. Sensor 7313 29.8 °C 10.0 ~ 60.0 1.0 28911c00590a00d7
Save
Find Sensors
delete all
more information try www.hw-group.com
Inactivity period before and after each alarm
Safe Range - device sends an email when this threshold is exceeded
Deletes the sensor from the list



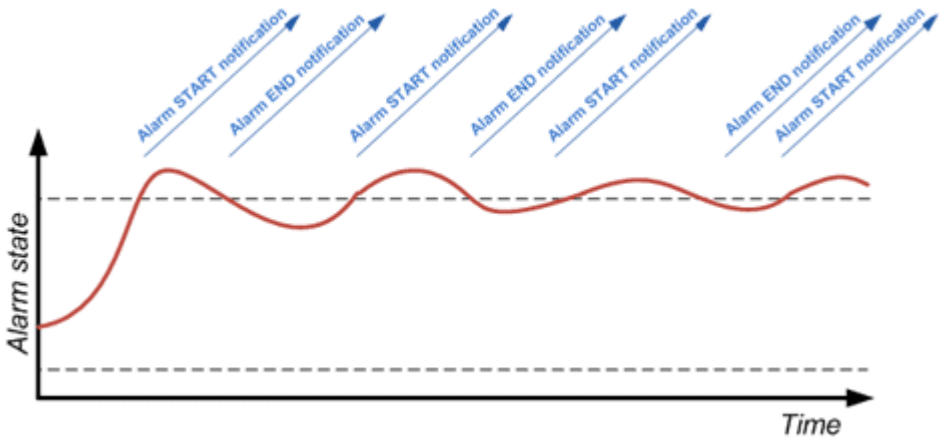
- Scans for changes in connected sensors

Note:
After connecting a new sensor or exchanging an existing one, always click **Find Sensors**.

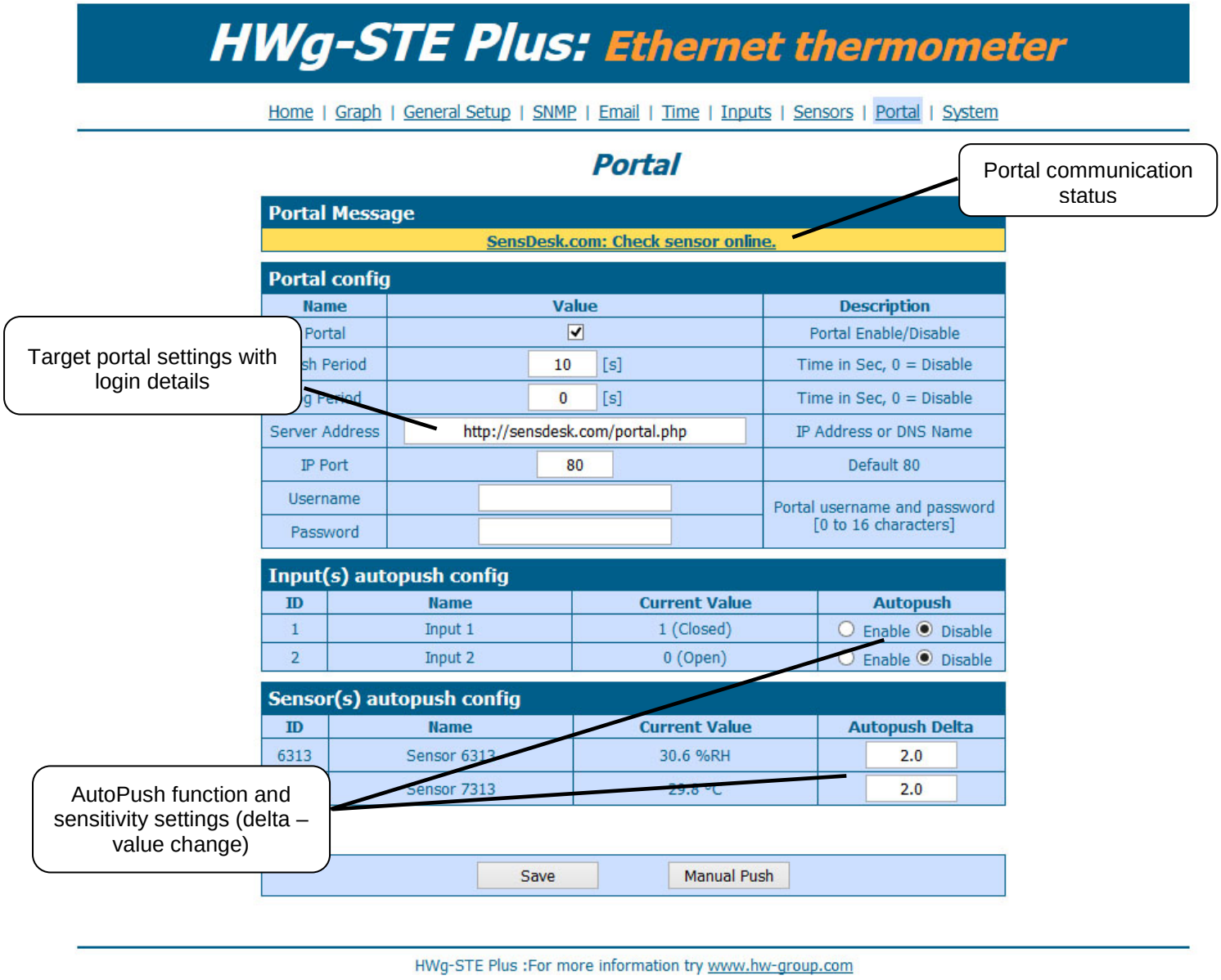
Hysteresis

Hysteresis prevents receiving tens and hundreds of alarm messages about start and ending of alarm while the value oscillates around the Safe Range threshold.
Set the value in °C or %RH, mostly using 1 to 4°C or approximately 5 %RH is enough.

You can find more on HWg websites in "**AN35: Poseidon – Preventing false alarms**":



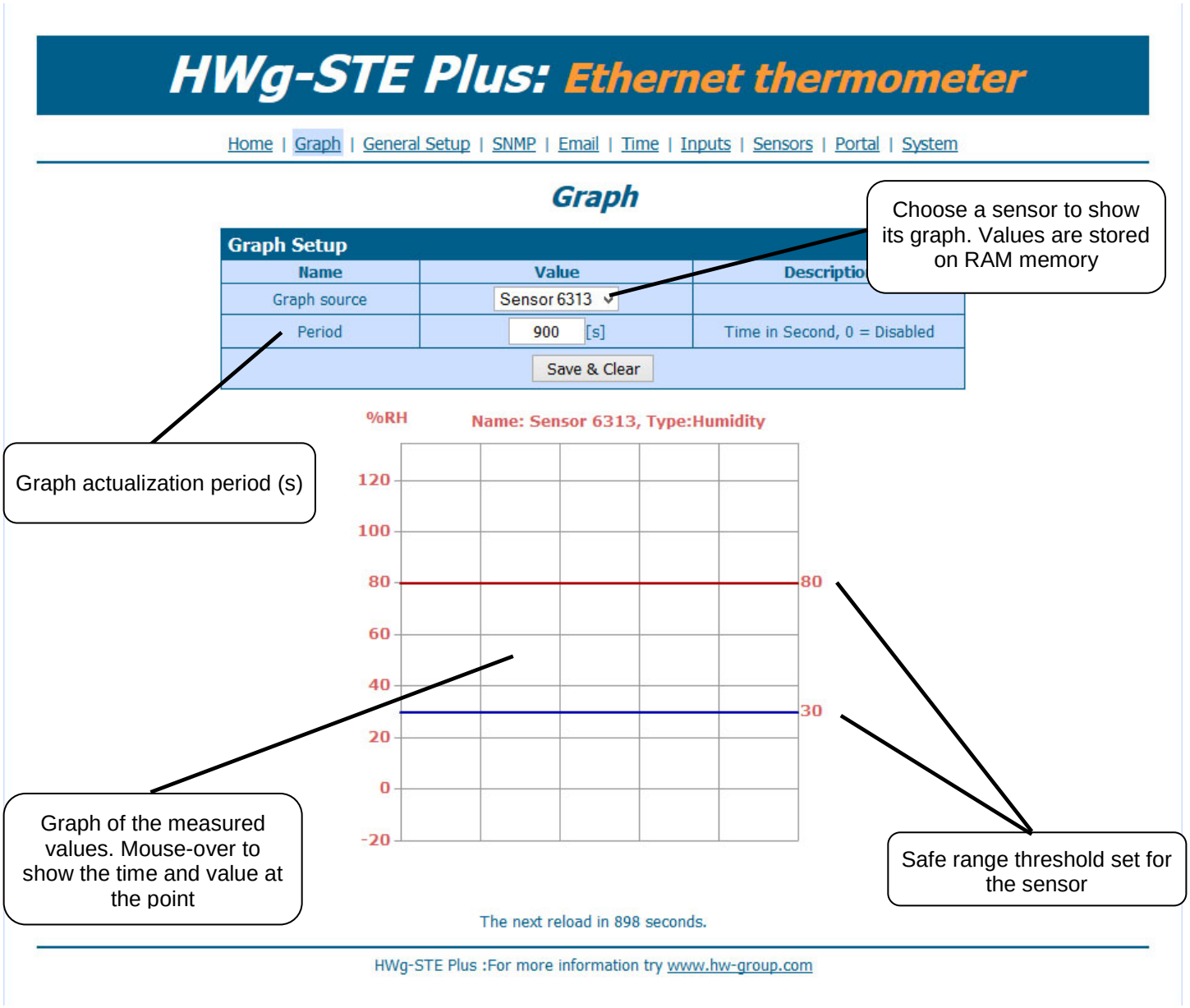
Portal



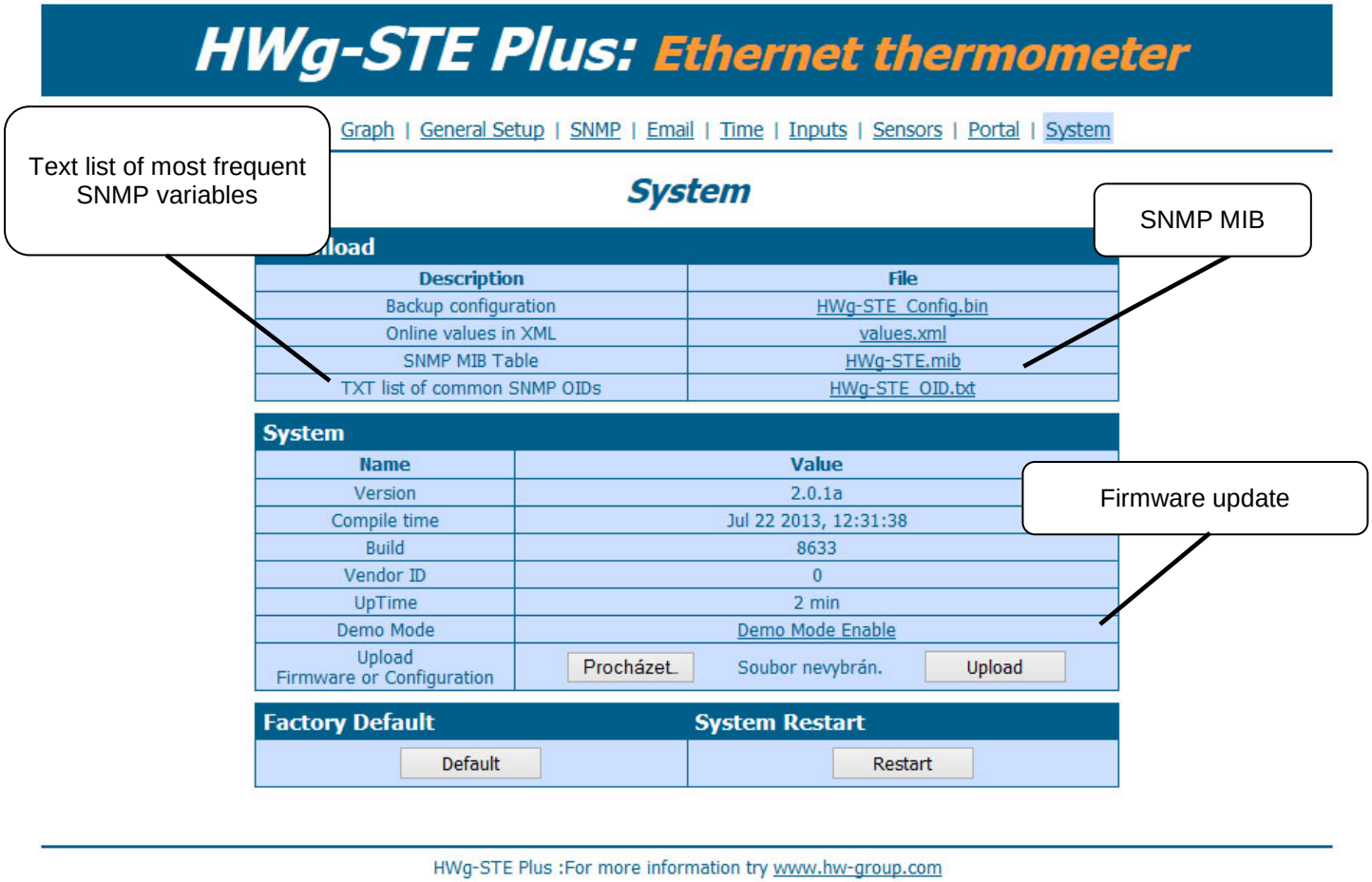
Portal function periodically sends data to a remote server. Sending period depends on the time set on a server that operates the portal.

AutoPush is a function allowing sending of measured data in case of value increase/decrease larger than AutoPush delta parameter.

Graph


HWg-STE Plus: Ethernet thermometer
Home | Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Portal | System
Graph
Graph Setup
Name
Value
Descriptio
Graph source
Sensor 6313
Period
900
[s]
Time in Second, 0 = Disabled
Save & Clear
%RH
Name: Sensor 6313, Type:Humidity
120
100
80
60
40
20
0
-20
80
30
The next reload in 898 seconds.
HWg-STE Plus :For more information try www.hw-group.com
Choose a sensor to show its graph. Values are stored on RAM memory
Graph actualization period (s)
Graph of the measured values. Mouse-over to show the time and value at the point
Safe range threshold set for the sensor

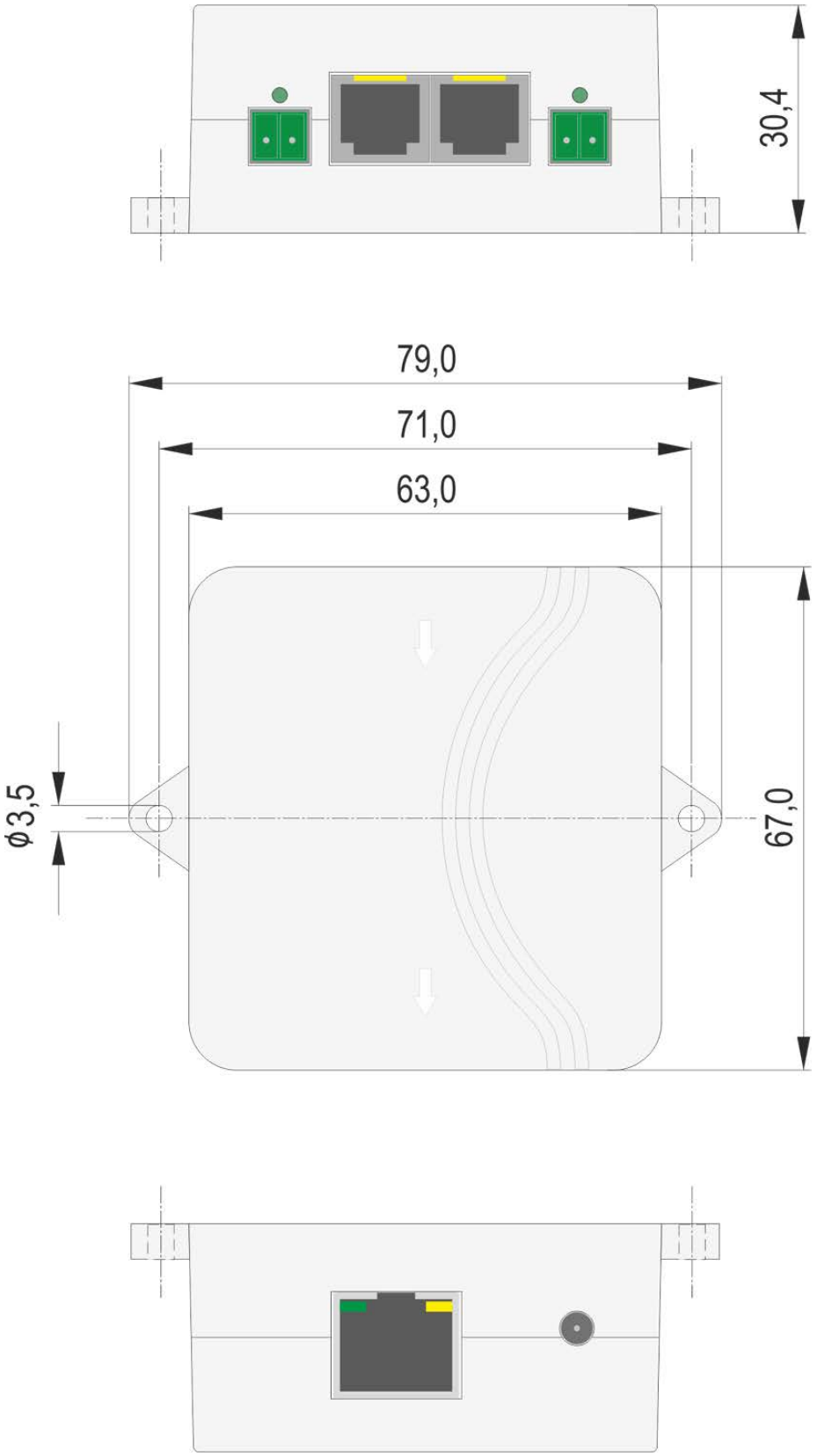
System


HWg-STE Plus: Ethernet thermometer
Graph | General Setup | SNMP | Email | Time | Inputs | Sensors | Portal | System
System
Text list of most frequent SNMP variables
SNMP MIB
Firmware update
Description
File
Backup configuration
HWg-STE_Config.bin
Online values in XML
values.xml
SNMP MIB Table
HWg-STE.mib
TXT list of common SNMP OIDs
HWg-STE_OID.txt
System
Name
Value
Version
2.0.1a
Compile time
Jul 22 2013, 12:31:38
Build
8633
Vendor ID
0
UpTime
2 min
Demo Mode
Demo Mode Enable
Upload Firmware or Configuration
Procházet...
Soubor nevybrán.
Upload
Factory Default
System Restart
Default
Restart
HWg-STE Plus :For more information try www.hw-group.com

Technical specifications

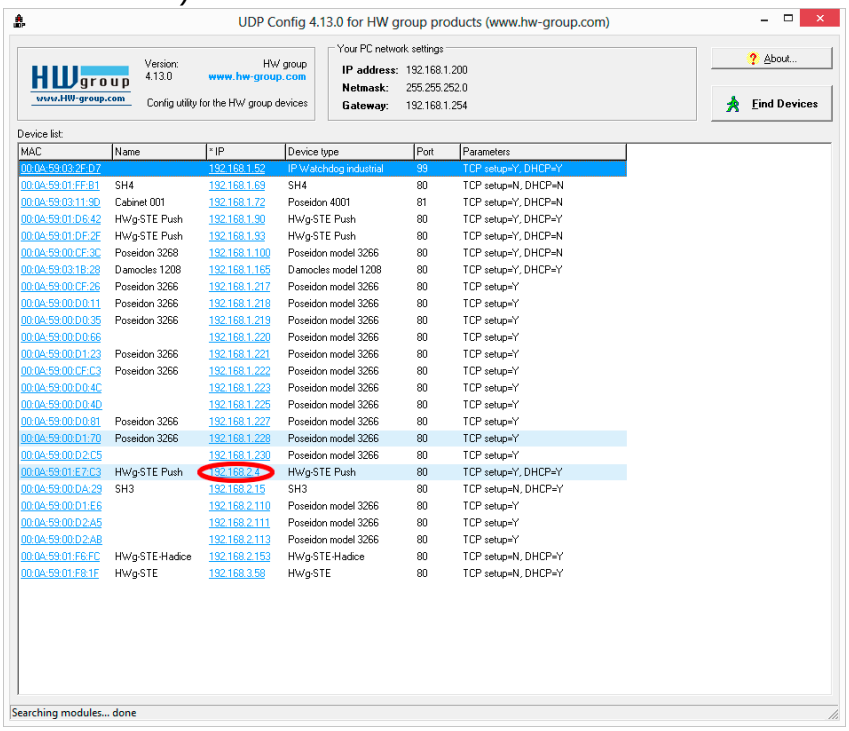
ETHERNET	
Interface	RJ45 (10/100BASE-T)
Supported protocols	IP: ARP, TCP/IP (HTTP, SNTP, SMTP, HWg-Push), UDP/IP (SNMP)
SNMP	Version1 fully supported, partially Version2
EXTERNAL SENSORS	
Port / connector	S1, S2 / RJ11 (1-Wire)
Can connect	Two external temperature or humidity sensors. One combined temperature and humidity sensor
Sensor types	Only HW group s.r.o. sensors
Sensors / range	Max 2 sensors / Max 60m in total for both sensors
DIGITAL INPUTS (Dry Contact Inputs)	
Port / connector	I1, I2 / socket clamp ø2mm
Type	Digital Input (supports NO/NC Dry contact)
Sensitivity	1 (On) = 0-500 Ω (Right pin on the terminal block can be connected to 12V GND)
Max. distance	Up to 50m
Power Supply	
Power Supply	5V DC / 250 mA
Connector	Jack Ø3.5 x 1.35 / 10 [mm]
PoE (Power over Ethernet)	RJ45 - IEEE 802.3af (only with “HWg-STE plus PoE” version)
LED	
POWER / status	Green - power OK (status = DHCP/Local alarm)
LINK & Activity	Yellow - Ethernet connectivity
JUMPER	
SET	**Load defaults:** Power-on with jumper ON for 30 seconds, switch off and remove jumper
Other parameters	
Operating temperature	-10 to 60 °C (operating temperature range does not have to correspond with sensors range)
Dimensions / Weight	65 x 80 x 30 [mm] / 500 g
EMC	CE / FCC Part 15, Class B
	EN 55022, EN 55024, EN 61000

Mechanical dimensions

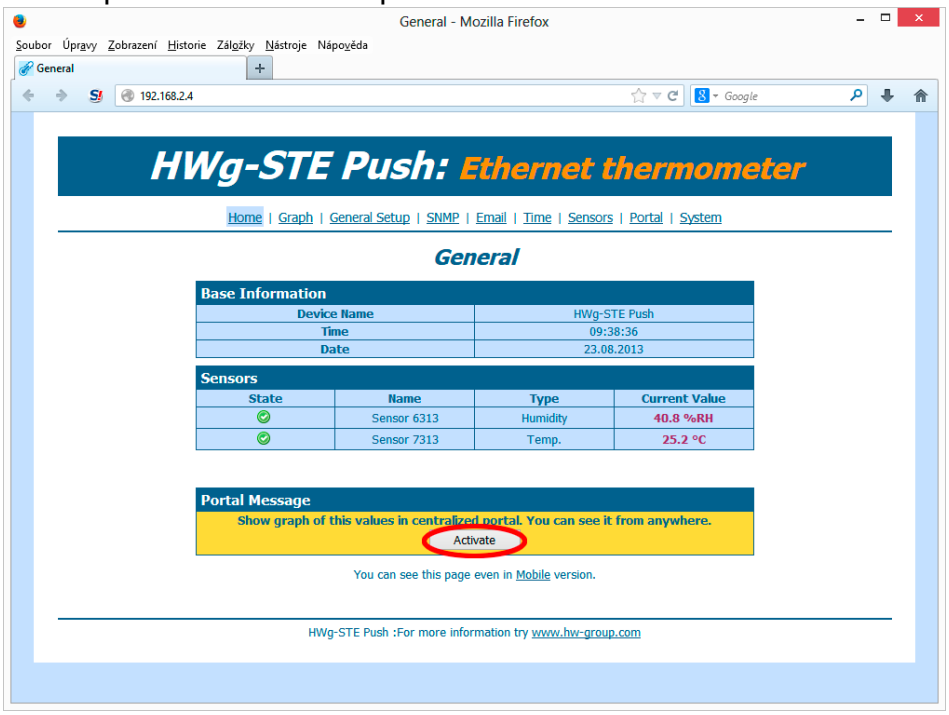


Connecting HWg-STE plus and STE Push to SensDesk portal

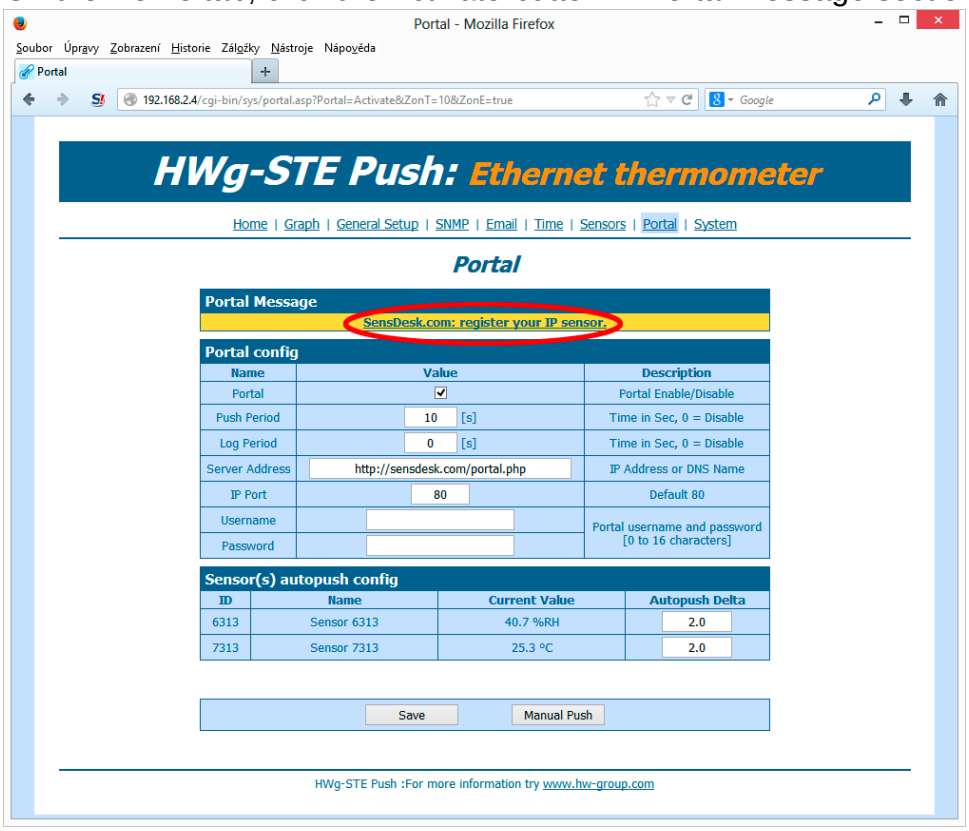
1) Connect the device to your network and set the network parameters (First Steps chapter in the user manual).


UDP Config 4.13.0 for HW group products (www.hw-group.com)
Version: 4.13.0
HW group
www.hw-group.com
Config utility for the HW group devices
Your PC network settings
IP address: 192.168.1.200
Netmask: 255.255.252.0
Gateway: 192.168.1.254
About...
Find Devices
Device list:
MAC | Name | IP | Device type | Port | Parameters
00:0A:59:03:2F:D7 | | 192.168.1.52 | IP Watchdog industrial | 99 | TCP setup=Y, DHCP=Y
00:0A:59:01:FF:B1 | SH4 | 192.168.1.69 | SH4 | 80 | TCP setup=N, DHCP=N
00:0A:59:03:11:9D | Cabinet 001 | 192.168.1.72 | Poseidon 4001 | 81 | TCP setup=Y, DHCP=N
00:0A:59:01:D6:42 | HWg-STE Push | 192.168.1.90 | HWg-STE Push | 80 | TCP setup=Y, DHCP=Y
00:0A:59:01:DF:2F | HWg-STE Push | 192.168.1.93 | HWg-STE Push | 80 | TCP setup=Y, DHCP=N
00:0A:59:00:CF:3C | Poseidon 3268 | 192.168.1.100 | Poseidon model 3266 | 80 | TCP setup=Y, DHCP=N
00:0A:59:03:1B:28 | Damocles 1208 | 192.168.1.165 | Damocles model 1208 | 80 | TCP setup=Y, DHCP=Y
00:0A:59:00:CF:26 | Poseidon 3266 | 192.168.1.217 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:11 | Poseidon 3266 | 192.168.1.218 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:35 | Poseidon 3266 | 192.168.1.219 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:66 | | 192.168.1.220 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D1:23 | Poseidon 3266 | 192.168.1.221 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:CF:C3 | Poseidon 3266 | 192.168.1.222 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:4C | | 192.168.1.223 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:4D | | 192.168.1.225 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D0:81 | Poseidon 3266 | 192.168.1.227 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D1:70 | Poseidon 3266 | 192.168.1.228 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D2:C5 | | 192.168.1.230 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:01:E7:C3 | HWg-STE Push | 192.168.2.4 | HWg-STE Push | 80 | TCP setup=Y, DHCP=Y
00:0A:59:00:DA:29 | SH3 | 192.168.2.15 | SH3 | 80 | TCP setup=N, DHCP=Y
00:0A:59:00:D1:E6 | | 192.168.2.110 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D2:A5 | | 192.168.2.111 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:00:D2:AB | | 192.168.2.113 | Poseidon model 3266 | 80 | TCP setup=Y
00:0A:59:01:F6:FC | HWg-STE-Hadice | 192.168.2.153 | HWg-STE-Hadice | 80 | TCP setup=N, DHCP=Y
00:0A:59:01:F8:1F | HWg-STE | 192.168.3.58 | HWg-STE | 80 | TCP setup=N, DHCP=Y
Searching modules... done

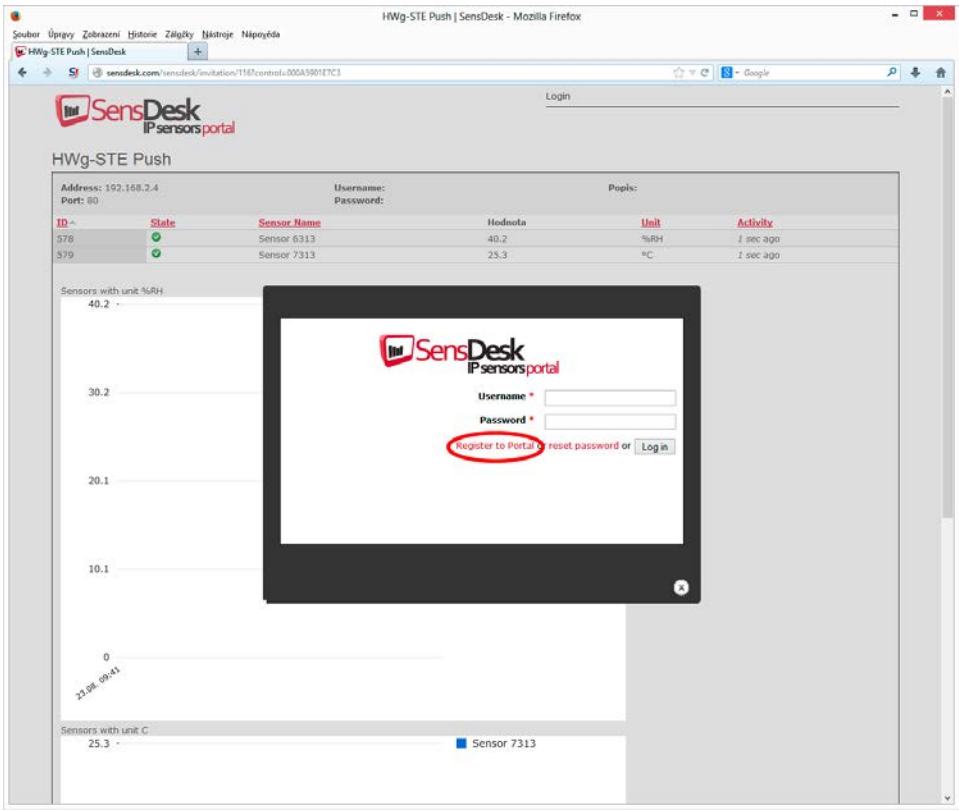
2) Then open the WWW setup of the device:


General - Mozilla Firefox
Soubor Úpravy Zobrazení Historie Záložky Nástroje Nápověda
General
192.168.2.4
HWg-STE Push: Ethernet thermometer
Home | Graph | General Setup | SNMP | Email | Time | Sensors | Portal | System
General
Base Information
Device Name: HWg-STE Push
Time: 09:38:36
Date: 23.08.2013
Sensors
State | Name | Type | Current Value
Sensor 6313 | Humidity | 40.8 %RH
Sensor 7313 | Temp. | 25.2 °C
Portal Message
Show graph of this values in centralized portal. You can see it from anywhere.
Activate
You can see this page even in Mobile version.
HWg-STE Push :For more information try www.hw-group.com

3) On the Home tab, click the *Activate* button in Portal Message section.

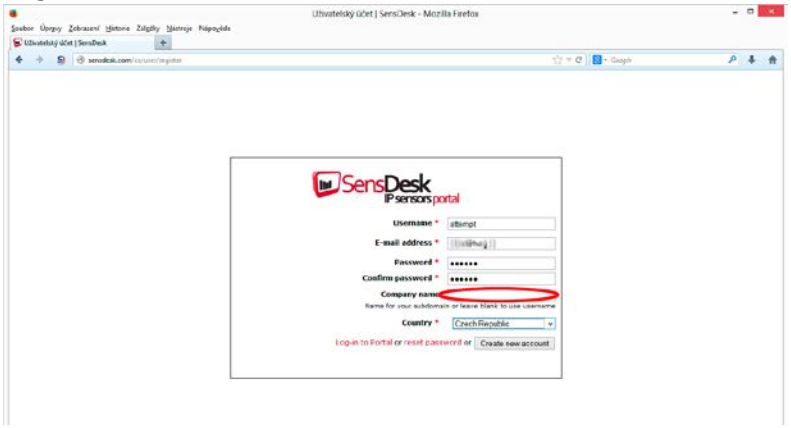


4) This will get you to a *Portal* tab and at the same time the portal function will be activated. By clicking the link ***SensDesk.com: register your IP sensor*** a login window on www.Sensdesk.com will be show:



5) In case you already have a user account, please enter your login details and the device will be automatically assigned to your account.

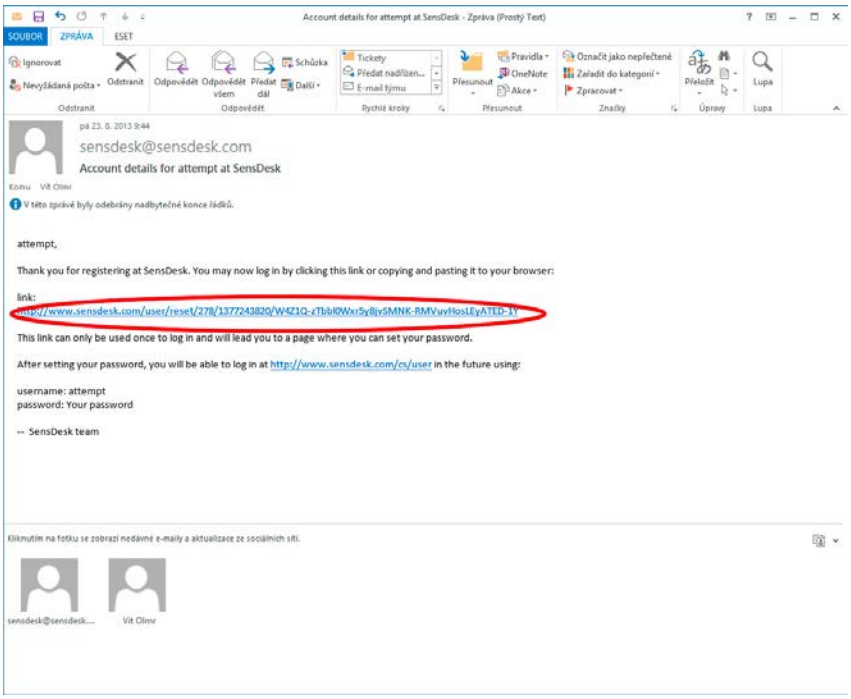
   In case you do not have a SensDesk account yet, click the *Register to Portal* link and a registration form will be shown.:



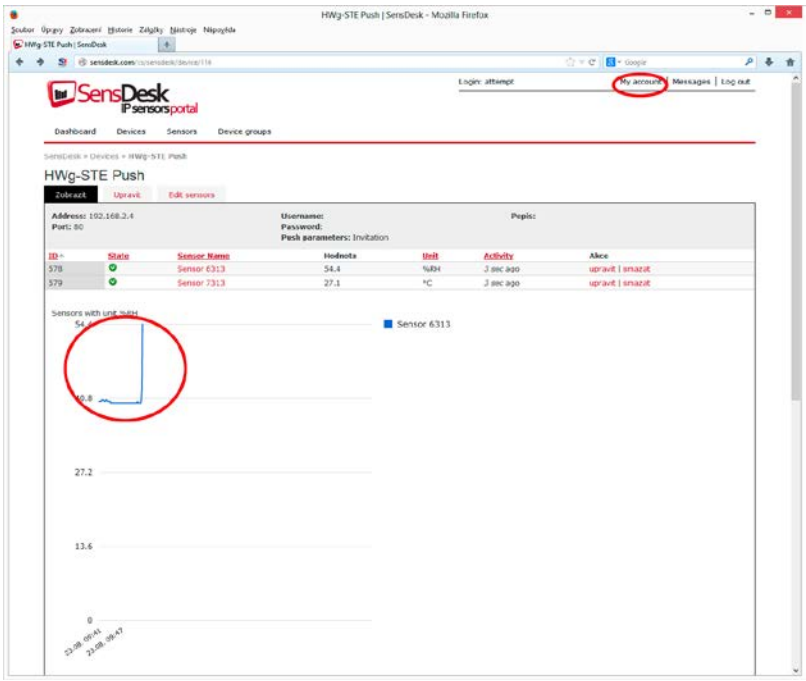
6) Enter the login details for your new account and a correct e-mail address. ***E-mail address*** has to be unique for the server (cannot be already registered under another account).

   Company name field allows you to create your own 3rd level domain (usually *company.sensdesk.com*). A user name will be used if the Company name field is left empty.

   After clicking ***Create new account*** button, a user account will be created and at the same time a confirmation email is sent to the entered e-mail address. This e-mail contains a confirmation link which has to be used in order to activate the account:

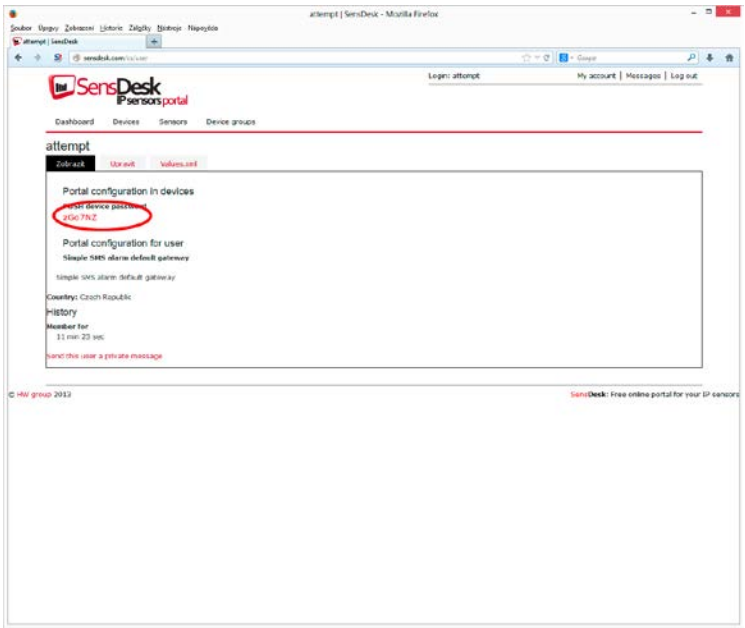

sensdesk@sensdesk.com
Account details for attempt at SensDesk
attempt,
Thank you for registering at SensDesk. You may now log in by clicking this link or copying and pasting it to your browser:
link:
This link can only be used once to log in and will lead you to a page where you can set your password.
After setting your password, you will be able to log in at http://www.sensdesk.com/cs/user in the future using:
username: attempt
password: Your password
-- SensDesk team

7) By activating the account, you will be redirected to the ***Invitation page.*** At this moment, the data sending period is set to 10 seconds to show the sensors functionality. This page is active only for approximately 15 minutes after the activation, then the logging period changes to 15 minutes.

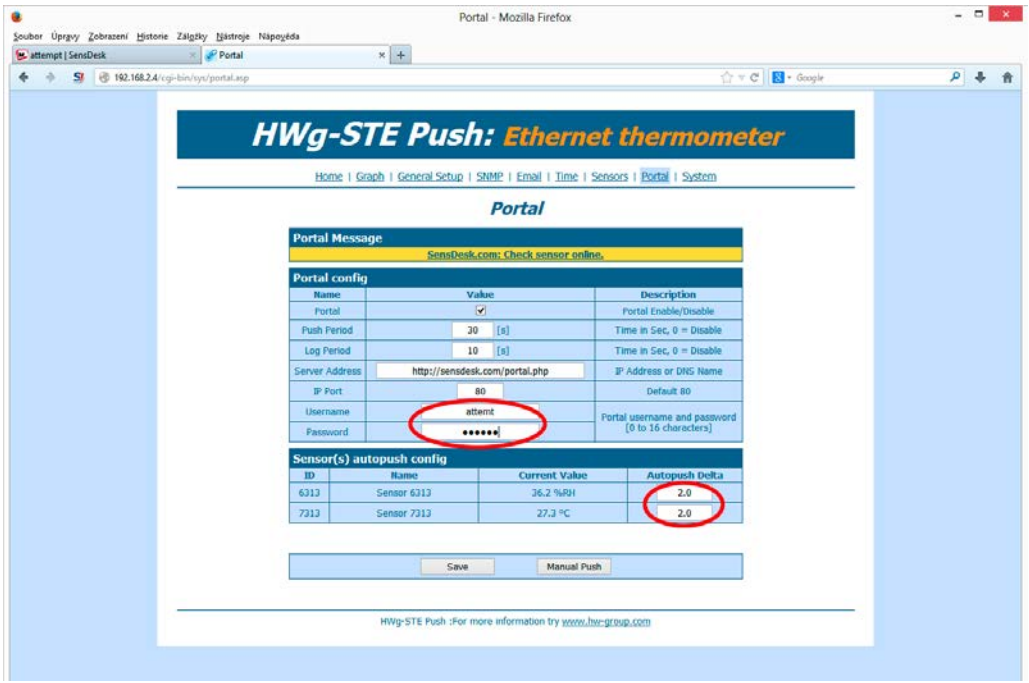


In your user account configuration (***My Account*** link), you can find your ***Push Device Password***. This password, together with your login name, identifies the device in communication with your account and in communication of mobile applications with SensDesk.

The password cannot be changed and for a security reason it is different to the login password.



PUSH Device Password can be used in devices to skip the logging procedure during assigning a device to your portal account without going through the logging process.



Using the mobile phone Application

Username and PUSH Device Password can be used also for setting the mobile application:

10:42
HWg-Sensors
ALL
ALARMS
Group: Doma
Vitek Doma 84 Cos Fi 1
Vitek Doma 38 Cos Fi 2
Vitek Doma 58 Cos Fi 3
Vitek Doma 0.7 A Current
Vitek Doma 0.405 A Current1
Vitek Doma 0.441 A Current2
Vitek Doma 2.594 A Current3
Vitek Doma 4448.557 kWh Energy
Vitek Doma 23820.9 kWh Energy
Vitek Doma 4136442 Wh Energy
Vitek Doma 0 Input 1
Vitek Doma 0 Input 2
Vitek Doma 0 Input 3
Vitek Doma 0 Input 4
Vitek Doma 0 Input 5
Vitek Doma 0 Input 6
Vitek Doma 0 Input 7
Vitek Doma 0 Input 8
Reload Sensors Page

Contact details

HW group s.r.o

Rumunská 26 / 122
Praha 2, 120 00

Tel. +420 222 511 918
Fax. +420 222 513 833

http://www.HW-group.com